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# Meteorological observations for September 1838

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and base, it would have been a subsesqui-pectate; the author, nevertheless, states that this salt gives the same composition for pectic acid as the pectates of silver.—R.P.]

*Pectate of Copper* was obtained by adding a solution of sulphate of copper to one of pectate of ammonia; the compound is a bright green jelly, which, after drying till it loses no more weight, forms a yellow mass. This salt was not of a constant composition. It was also attempted to be procured by decomposing a very ammoniacal pectate by sulphate of copper. The compound remained long dissolved; at last it formed in intense blue jelly, which could not be obtained free from ammonia, even by long washing; it was evidently a double salt.—*Journal de Pharmacie*, xxiv. 205.

#### PORTRAIT OF PROF. FARADAY.

Our readers will be gratified by learning that a half-length engraving of Professor Faraday will be immediately published by Mr. C. Turner, A.R.A., Warren-street, Fitzroy-square. The likeness is most successful, and the expression admirable; it gives us not only his character, but figure, and is taken as he is usually seen when delivering his lectures.

#### PORTRAIT OF ROBERT BROWN, F.R.S., &c.

We gladly also call attention to the portrait of our distinguished countryman Robert Brown, engraved with great success by C. Fox, from the excellent picture by Pickersgill, in the possession of the Linnean Society.

Copies of the Engraving may be obtained at the Society's House.

#### METEOROLOGICAL OBSERVATIONS FOR SEPTEMBER 1838.

*Chiswick*.—Sept. 1—3. Very fine. 4. Foggy: very fine. 5. Fine: rain. 6. Heavy rain. 7. Showery. 8. Cloudy and cold. 9—12. Very fine. 13, 14. Overcast and fine. 15. Hazy: very fine. 16, 17. Foggy in the mornings: very fine. 18. Fine: overcast. 19. Rain: very fine: drizzly. 20. Cloudy. 21, 22. Foggy: very fine. 23. Slight rain: fine: rain at night. 24. Foggy: heavy rain. 25. Hazy. 26. Foggy: fine. 27. Rain. 28. Foggy: fine. 29. Foggy: rain. 30. Very fine.

On the evening of the 16th, about 8 P.M., a luminous arch was observed ascending from the west and proceeding in an easterly direction; terminating in the zenith, but with an attenuated broad train, bending towards the south.

*Boston*.—Sept. 1, 2. Fine. 3. Cloudy. 4, 5. Fine. 6. Rain. 7. Fine: rain A.M. 8. Cloudy. 9—12. Fine. 13—15. Cloudy. 16. Fine: lively appearance of northern lights 8 P.M. 17, 18. Cloudy. 19. Fine: rain early A.M. 20, 21. Fine. 22. Foggy. 23. Cloudy: rain at night. 24—26. Cloudy: rain P.M. 27. Rain. 28. Fine. 29, 30. Foggy.

*Applegarth Manse, Dumfries-shire*.—Sept. 1. Temperate. 2. Shower A.M.: fair P.M. 3. Fair A.M.: wet P.M. 4. Showery great part of the day. 5. Wet all day. 6. Dripping day. 7—9. Fine harvest days. 10. Cloudy. 11. Cloudy: moist P.M. 12. Showery throughout. 13. Dull: moist. 14. Moist and warm. 15. Mild: warm. 16. Fine harvest day: Aurora. 17. Fine harvest day. 18. Fair till 6 P.M. rain. 19. Fair A.M.: rain. 20. Fair till 3 P.M.: rain and thunder. 21. Fair till 5 P.M.: rain. 22. Showery all day. 23. Fair all day. 24. Dripping day: cold. 25. Very moist. 26. Remarkably fine. 27. Very mild: warm P.M. 28. Fine harvest day. 29. Rather moist. 30. Fine harvest day.

*Meteorological Observations made at the Apartments of the Royal Society by the Assistant Secretary, Mr. ROBERTSON; by Mr. THOMPSON at the Garden of the Horticultural Society at Chiswick, near London; by Mr. VALL at Boston, and by Mr. DUNBAR at Applegarth Manse, Dumfries-shire.*

| Days of Month, 1888, Sept. | Barometer.               |           |        |                 | Thermometer.    |        |                   |      |           |       | Wind.                         |                          |           |                 | Rain.                    |           | Dew-point.      |                          |      |
|----------------------------|--------------------------|-----------|--------|-----------------|-----------------|--------|-------------------|------|-----------|-------|-------------------------------|--------------------------|-----------|-----------------|--------------------------|-----------|-----------------|--------------------------|------|
|                            | London: Roy. Soc. 9 a.m. | Chiswick. |        | Boston. 8½ a.m. | Dumfries-shire. |        | London: Roy. Soc. |      | Chiswick. |       | Dumfries-shire. 9 a.m. 9 p.m. | London: Roy. Soc. 9 a.m. | Chiswick. | Dumfries-shire. | London: Roy. Soc. 9 a.m. | Chiswick. | Dumfries-shire. | London: Roy. Soc. 9 a.m. |      |
|                            |                          | Max.      | Min.   |                 | 9 a.m.          | 9 p.m. | Fahr. 9 a.m.      | Max. | Min.      | Max.  |                               |                          |           |                 |                          |           |                 |                          | Min. |
| 1.                         | 30.108                   | 30.111    | 30.076 | 29.49           | 29.92           | 29.97  | 61.0              | 69.5 | 54.0      | 73    | 54                            | 60.5                     | 56        | 52              | W.                       | NW.       | NW.             | ..                       | 56   |
| 2.                         | 30.140                   | 30.201    | 30.123 | 29.52           | 29.97           | 30.04  | 61.5              | 68.5 | 57.0      | 71    | 45                            | 60                       | 56        | 48              | NW.                      | NW.       | W.              | ..                       | 55   |
| 3.                         | 30.190                   | 30.189    | 30.090 | 29.58           | 29.99           | 29.98  | 60.0              | 68.0 | 53.0      | 73    | 38                            | 59                       | 50½       | 52½             | SW.                      | calm      | W.              | ..                       | 55   |
| 4.                         | 29.998                   | 29.994    | 29.636 | 29.43           | 29.86           | 29.75  | 59.0              | 69.0 | 52.0      | 76    | 43                            | 60                       | 56        | 52              | SSW.                     | calm      | calm            | ..                       | 55   |
| 5.                         | 29.612                   | 29.605    | 29.374 | 29.01           | 29.51           | 29.37  | 64.0              | 69.0 | 59.8      | 75    | 56                            | 63½                      | 56        | 52              | S.                       | W.        | SE.             | ..                       | 61   |
| 6.                         | 29.290                   | 29.321    | 29.272 | 28.68           | 29.26           | 29.20  | 59.2              | 69.0 | 58.0      | 75    | 54                            | 59                       | 56        | 51              | SSW.                     | SW.       | N.E.            | 1.35                     | 59   |
| 7.                         | 29.344                   | 29.473    | 29.318 | 28.80           | 29.33           | 29.57  | 63.5              | 64.5 | 57.4      | 70    | 50                            | 60                       | 49½       | 47½             | NNE.                     | W.        | N.              | ..                       | 60   |
| 8.                         | 29.640                   | 30.058    | 29.627 | 29.14           | 29.76           | 29.93  | 59.0              | 68.0 | 52.0      | 56    | 35                            | 52.5                     | 49½       | 44              | NNE.                     | N.        | NNW.            | ..                       | 51   |
| 9.                         | 30.220                   | 30.370    | 30.207 | 29.64           | 30.11           | 30.22  | 51.5              | 56.0 | 44.5      | 63    | 36                            | 48                       | 47½       | 42½             | SW.                      | NW.       | calm            | ..                       | 46   |
| 10.                        | 30.406                   | 30.549    | 30.401 | 29.93           | 30.33           | 30.42  | 51.5              | 59.5 | 46.5      | 68    | 34                            | 48                       | 46        | 46              | NW.                      | NW.       | calm            | ..                       | 49   |
| 11.                        | 30.548                   | 30.547    | 30.543 | 30.02           | 30.32           | 30.35  | 48.7              | 59.5 | 45.0      | 70    | 37                            | 52                       | 46½       | 52              | W.                       | calm      | calm            | ..                       | 47   |
| 12.                        | 30.500                   | 30.515    | 30.418 | 29.93           | 30.30           | 30.26  | 53.2              | 60.0 | 47.5      | 72    | 44                            | 57                       | 56        | 56              | SW.                      | calm      | SW.             | ..                       | 50   |
| 13.                        | 30.328                   | 30.341    | 30.235 | 29.74           | 30.15           | 30.00  | 57.8              | 65.0 | 51.5      | 66    | 43                            | 59                       | 56        | 56              | W.                       | calm      | SW.             | ..                       | 53   |
| 14.                        | 30.146                   | 30.149    | 30.069 | 29.57           | 29.99           | 29.98  | 61.0              | 64.0 | 52.5      | 69    | 56                            | 58                       | 58        | 52              | SW.                      | calm      | SSW.            | ..                       | 55   |
| 15.                        | 30.088                   | 30.082    | 30.057 | 29.53           | 30.00           | 30.02  | 59.5              | 65.0 | 59.0      | 70    | 39                            | 63                       | 54        | 58              | NW.                      | calm      | SW.             | ..                       | 59   |
| 16.                        | 30.078                   | 30.105    | 30.037 | 29.53           | 30.03           | 30.05  | 55.8              | 65.2 | 50.8      | 74    | 48                            | 57                       | 60        | 54              | N.                       | N.E.      | calm            | ..                       | 55   |
| 17.                        | 30.072                   | 30.121    | 30.037 | 29.56           | 30.11           | 30.11  | 59.3              | 67.7 | 55.3      | 70    | 50                            | 58                       | 57½       | 47              | NNE.                     | N.E.      | Ebys            | ..                       | 55   |
| 18.                        | 30.056                   | 30.040    | 30.017 | 29.59           | 30.10           | 30.00  | 57.3              | 67.8 | 52.4      | 64    | 52                            | 56.5                     | 50        | 46              | NNE.                     | N.E.      | Ebys            | ..                       | 54   |
| 19.                        | 29.948                   | 29.942    | 29.845 | 29.29           | 29.90           | 29.70  | 54.4              | 60.4 | 54.6      | 63    | 52                            | 57                       | 52        | 52              | NW.                      | NW.       | SSW.            | ..                       | 53   |
| 20.                        | 29.858                   | 29.941    | 29.845 | 29.34           | 29.68           | 29.70  | 57.6              | 58.6 | 54.6      | 68    | 35                            | 51                       | 50        | 48              | SW.                      | calm      | W.              | .022                     | 54   |
| 21.                        | 29.850                   | 29.977    | 29.854 | 29.35           | 29.80           | 29.85  | 50.7              | 63.8 | 46.3      | 68    | 36                            | 51                       | 48        | 46              | NW.                      | calm      | calm            | ..                       | 49   |
| 22.                        | 30.000                   | 30.005    | 29.893 | 29.50           | 29.84           | 29.70  | 53.7              | 60.2 | 42.8      | 69    | 49                            | 48                       | 50½       | 52½             | SSW.                     | calm      | SW.             | ..                       | 50   |
| 23.                        | 29.918                   | 29.928    | 29.866 | 29.29           | 29.63           | 29.70  | 57.6              | 60.6 | 52.7      | 69    | 45                            | 59                       | 54        | 52              | S.                       | NW.       | calm            | .10                      | 54   |
| 24.                        | 29.918                   | 29.920    | 29.750 | 29.44           | 29.81           | 29.83  | 54.7              | 63.7 | 51.0      | 56    | 49                            | 52                       | 56        | 49½             | N.                       | calm      | W.              | .10                      | 54   |
| 25.                        | 29.820                   | 29.940    | 29.734 | 29.30           | 29.87           | 29.89  | 51.6              | 56.3 | 50.4      | 58    | 42                            | 55                       | 52        | 50              | N.                       | calm      | calm            | .038                     | 53   |
| 26.                        | 29.988                   | 29.982    | 29.975 | 29.53           | 29.87           | 29.92  | 48.8              | 55.3 | 47.3      | 58    | 48                            | 51                       | 52        | 50              | SSW.                     | calm      | NNE.            | .750                     | 52   |
| 27.                        | 29.864                   | 29.933    | 29.841 | 29.46           | 29.92           | 29.85  | 52.6              | 58.3 | 49.2      | 59    | 40                            | 53.5                     | 54        | 50½             | NW.                      | calm      | S.              | .116                     | 53   |
| 28.                        | 30.000                   | 30.072    | 29.975 | 29.48           | 29.93           | 30.00  | 46.3              | 54.7 | 45.0      | 65    | 51                            | 49                       | 52        | 54              | NW.                      | calm      | calm            | .55                      | 47   |
| 29.                        | 30.016                   | 30.138    | 30.014 | 29.58           | 30.00           | 30.02  | 56.3              | 61.0 | 46.5      | 60    | 54                            | 51                       | 54½       | 50              | S.                       | E.        | calm            | .783                     | 53   |
| 30.                        | 30.200                   | 30.303    | 30.197 | 29.68           | 30.16           | 30.29  | 57.8              | 59.2 | 56.4      | 64    | 43                            | 51                       | 52½       | 52              | N.                       | calm      | S.              | .02                      | 47   |
| Mean.                      | 30.005                   | 30.061    | 29.944 | 29.46           | 29.92           | 29.92  | 55.9              | 62.6 | 51.5      | 67.06 | 45.26                         | 55.3                     | 53        | 50½             | Sum. 2.247               | 2.08      | 1.82            | Mean. 53.2               | 53.2 |